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## FISICA I P - Z

FIS/01 - 9 CFU - 2° Semester

### Teaching Staff

#### GIULIO MANICO'

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### LEARNING OBJECTIVES

The course aims to introduce the physical investigation methods and provide the fundamentals of mechanics, of both the material point and the extended bodies, and thermodynamics.

### COURSE STRUCTURE

Lectures

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### DETAILED COURSE CONTENT

#### MECHANICS

Physics and measurement. Vectors. Kinematics. Dynamics. Applications of the principles of dynamics. Work and Energy. Oscillations. System Dynamics. Rigid bodies. Fluids.

#### TERMODYNAMICS

Thermodynamic systems. First law of thermodynamics. Second law of thermodynamics.

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### TEXTBOOK INFORMATION

Focardi, Massa, Uguzzoni, Villa: "Fisica Generale. Meccanica e Termodinamica. Seconda edizione."  
(CEA)

Mazzoldi, Nigro, Voci: "Elementi di Fisica Vol. 1 - Meccanica e Termodinamica. Seconda edizione."  
(EdiSES)

Falciglia: "Problemi di Fisica I. Meccanica e Termodinamica." (EdiSES)

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